

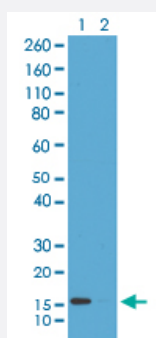
RecomAb™

Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221

Catalog # MAB12800

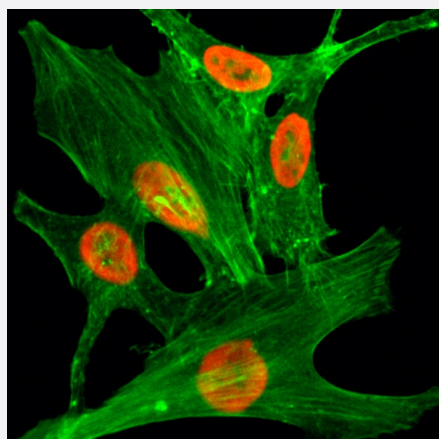
Size 100 ug

Applications



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: acid extracts of HeLa cell treated with sodium butyrate and Lane 2: acid extracts of HeLa cell untreated with Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221 (Cat # MAB12800) at 0.5 ug/mL working concentration, showed a band of Histone H2AZ acetylated at Lysine 4.



Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221 (Cat# MAB12800) (red). Actin filaments have been labeled with fluorescein phalloidin (green).

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221 (Cat# MAB12800) specifically reacts to Histone H2A.Z acetylated at Lysine 4 (K4ac). No cross reactivity with non-modified Lysine 4 or other acetylated Lysines in histone H2A.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H2AZ (acetyl K4).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic acetyl peptide corresponding to residues surrounding K4 of human Histone H2AZ.
Sequence	N/A
Specificity	This antibody reacts to Histone H2AZ acetylated at Lysine 4. No cross reactivity with non-modified Lysine 4 or other acetylated Lysines in histone H2A
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ELISA (0.2 ug/mL-1 ug/mL) Western Blot (0.5 ug/mL-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	<p>This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</p> <p>This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</p> <p>Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221 (Cat# MAB12800) specifically reacts to Histone H2A.Z acetylated at Lysine 4 (K4ac). No cross reactivity with non-modified Lysine 4 or other acetylated Lysines in histone H2A.</p>

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — H2AFZ

Entrez GeneID [3015](#)

Protein Accession# [P0C0S5](#)

Gene Name H2AFZ

Gene Alias H2A.z, H2A/z, H2AZ, MGC117173

Gene Description H2A histone family, member Z

Omim ID [142763](#)

Gene Ontology [Hyperlink](#)

Gene Summary Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent member of the histone H2A family that is distinct from other members of the family. Studies in mice have shown that this particular histone is required for embryonic development and indicate that lack of functional histone H2A leads to embryonic lethality. [provided by RefSeq]

Other Designations H2AZ histone

Pathway

- [Systemic lupus erythematosus](#)